

Patent Number(s): JP47039497-A; JP78001320-B

Title: Polyester mfr - using antimony mercapto or thio carboxylates as catalyst

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Patents Cited by Inventor: 0

Citing Patents: 0

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

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Abstract:

An Sb salt of alpha-mercaptocarboxylate or thio-alpha, beta-dicarboxylate is used as a polycondensation catalyst of bis (beta-hydroxyethyl) terephthalate to give polyester with improved whiteness and transparency suitable for spinning. E.g. a soln. of Ph₂C(SH)CO₂H in EtOH was added slowly to a soln. of (EtO)₃Sb in EtOH, and the mixt. heated at 60 degrees to give ethoxyantimony diphenylthioglycolate (I). (I) in ethylene glycol (II) was added to an ester-exchanged mixt from di-Me terephthalate and (II) and the mixt. was polycondensed to give a transparent slightly yellow poly(ethylene terephthalate) which had an increased intrinsic viscosity at 25 degrees C than that mfd. using Sb₂O₃ as catalyst.

International Patent Classification: C08G-063/36

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds); E12 (Organometallics); F01 (Threads and fibres, natural or artificial; spinning)

Derwent Manual Code(s): A02-A07; A05-E04A; E05-J; F01-D04

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